

Analytical Laboratory

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	J13100056			
Project Name:	NPDES - MONTHLY			
Customer Name(s):	Michael Byrd, Craig Mercer, Mark J	Harper, Todd	Spade, Matthew Ho	oyt, Desiree
Customer Address:	11021 BROWER RD.			
	NORTH BEND, OH 45052			
Lab Contact:	Mary Ann Ogle	Phone: 9	980-875-5274	
Report Authorized By: (Signature)		Date:		10/16/2013
(**************************************	Mary Ann Ogle			

Program Comments:

Please contact the Program Manager (Mary Ann Ogle) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

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Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013024195	MIAMI-FORT	01-Oct-13 9:00 AM	Mark Harper	OUTFALL 002
2013024196	MIAMI-FORT	01-Oct-13 9:45 AM	Mark Harper	OUTFALL 608
2 Total Samples				

Technical Validation Review

Checklist:

	COC and .pdf report are in agreement with sample and analyses (compliance programs and procedure		✓ Yes	□ No				
	All Results are less than the laboratory reporting lim	nits.	Yes	✓ No				
	All laboratory QA/QC requirements are acceptable.		✓ Yes	☐ No				
Report	t Sections Included:							
✓	Job Summary Report	☐ Sub-cont	racted Laborat	ory Results				
✓	Sample Identification	☐ Custome	r Specific Data	Sheets, Reports, & Documentation				
✓	Technical Validation of Data Package	☐ Custome	r Database En	tries				
✓	Analytical Laboratory Certificate of Analysis	✓ Chain of	Custody					
	Analytical Laboratory QC Report	☐ Electronic Data Deliverable (EDD) Sent Separatel						

Reviewed By: DBA Account Date: 10/16/2013

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13100056

Site: OUTFALL 002 Sample #: 2013024195

Collection Date: 01-Oct-13 9:00 AM Matrix: NPDES

Analysis Date/Time Analyte Result Units Qualifiers RDL DF Method **Analyst TOTAL DISSOLVED SOLIDS** TDS 830 SM2540C DSBAKE1 mg/L 25 1 10/07/2013 13:29

Site: OUTFALL 608 Sample #: 2013024196

Collection Date: 01-Oct-13 9:45 AM Matrix: NPDES

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Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
ALKALINITY (FIXED END POINT 4.5	<u>))</u>							
Alkalinity (mg/L CaCO3)	1300	mg/L (CaCO3)		0.1	1	SM2320B	10/04/2013 13:33	TJA7067
INORGANIC IONS BY IC								
Chloride	4400	mg/L		100	1000	EPA 300.0	10/04/2013 22:02	JAHERMA
Fluoride	47	mg/L		10	100	EPA 300.0	10/04/2013 22:02	JAHERMA
Sulfate	18000	mg/L		200	2000	EPA 300.0	10/04/2013 22:02	JAHERMA
TOTAL METALS BY ICP								
Boron (B)	493	mg/L		2.5	50	EPA 200.7	10/07/2013 13:11	MHH7131
Iron (Fe)	0.327	mg/L		0.01	1	EPA 200.7	10/07/2013 13:11	MHH7131
Manganese (Mn)	10.7	mg/L		0.005	1	EPA 200.7	10/07/2013 13:11	MHH7131
TOTAL RECOVERABLE METALS B	Y ICP-MS							
Arsenic (As)	< 20	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Barium (Ba)	116	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Cadmium (Cd)	< 20	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Chromium (Cr)	< 20	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Copper (Cu)	< 20	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Lead (Pb)	< 20	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Zinc (Zn)	< 20	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
TOTAL DISSOLVED SOLIDS								
TDS	44000	mg/L		25	1	SM2540C	10/07/2013 13:29	DSBAKE1
TOTAL SUSPENDED SOLIDS								
TSS	9.0	mg/L		5	1	SM2540D	10/04/2013 10:27	DSBAKE1

	·		Analytical Laboratory Services			Analytical Laboratory Use Only Sample Class									¹⁹ Page _1_ of _2_ Page 5 of 5				
Mail Code MGO3A2 (Building 7405) 13339 Hagers Ferry Rd Huntersville, N. C. 28078			773100054 NPDES Samples																
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	(Week	1 Oct 1,2013)			PO#			Cooler Temp (C)				RCRA	Waste		collection				
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Mail Code MGO3A2 (Building 7405) 13339 Hagers Ferry Rd Huntersville, N. C. 28078 (980) 875-5245 Fax: (980) 875-54349 Vendor Week 1 Oct 1,2013) MidMil Fort - Michael Byrd, Matt Hoyt Sample Class NPDES Samples Orginating From: NC SC Date & Time Logged By Vendor Vendor Vendor Vendor Vendor Po # Po #																			
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